

## Grades PreK-2: Data Analysis and Probability

**STANDARD** I. Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them.

**EXPECTATION** A. Pose questions and gather data about themselves and their surroundings.

PreK	K	1	2
1. Collect data related to familiar experiences by counting.	*1. Collect data related to familiar experiences.	1. Pose and answer questions about charts and graphs relating to familiar experiences (e.g., recording daily temperature, the lunch count, class attendance, and favorite flavors of ice cream).	1. Collect data using surveys.

**EXPECTATION** B. Sort and classify objects according to their attributes and organize data about the objects.

PreK	K	1	2
1. Sort and classify by a single attribute (color, shape, size).	1. Compare, sort, and group objects by a given attribute.	1. Compare, sort, and group objects by observable attributes.	*1. Collect, sort, and organize data.

**EXPECTATION** C. Represent data using concrete objects, pictures, and graphs.

PreK	K	1	2
1. Draw a picture to represent data.	*1. Display information by using object graphs, pictorial graphs, and tables.	1. Use organized data to construct picture, object, and bar graphs.	*1. Use organized data to create charts, graphs, and tables.

**STANDARD**

II. Select and use appropriate statistical methods to analyze data.

**EXPECTATION**

A. Describe parts of the data and the set of data as a whole to determine what the data show.

PreK	K	1	2
	*1. Interpret information on a graph.	*1. Interpret information displayed in a picture graph, object graph, and bar graph using the vocabulary <i>more, less, fewer, greater than, and less than</i> .	1. Explain the trends of a data set (e.g., increasing, decreasing, random).

**STANDARD**

III. Develop and evaluate inferences and predictions that are based on data.

**EXPECTATION**

A. Discuss events related to students' experiences as likely or unlikely.

PreK	K	1	2
		1. Identify an event as likely or unlikely to occur.	*1. Describe events as more likely or less likely to occur.